

CLAIMS

1. A method for the visual marking of glass panes (1) which are tempered and then heat-treated, by
5 modification of a marking layer (8) deposited on a surface of the glass pane, that visually indicates that the heat treatment has been carried out, characterized in that a marking field (3) is produced on the surface of the glass pane, the surface of the marking field
10 having a surface structure and being modified relative to the smooth surface of the glass pane in such a way that the marking layer (8) deposited on the latter between the tempering and the heat treatment exhibits intimate adhesive bonding thereto, which marking layer
15 cannot be completely removed from the marking field (3) using mechanical means, and the color of said marking layer being irreversibly modified by the heat treatment.
- 20 2. The method as claimed in preceding claim, characterized in that the marking field is produced on the surface of the glass pane before the tempering.
3. The method as claimed in any one of the preceding
25 claims, characterized in that a color containing a thermochromic pigment is used as marking layer, the color of which pigment is irreversibly modified at the temperature intended for the heat treatment.
- 30 4. The method as claimed in any one of the preceding claims, characterized in that the heat-treatment is a test of hot storage or Heat-Soaking-Test.
- 35 5. The method as claimed in any one of the preceding claims, characterized in that the marking field (3) intended for depositing the marking layer (8) is produced by a locally limited chemical and/or mechanical action on the surface of the glass pane,

during which action hollows appear in this surface into which the marking layer (8) can penetrate.

5 6. The method as claimed in any one of the preceding claims, characterized in that the marking field (3) intended for depositing the marking layer (8) is produced by depositing a coating (5) with an uneven surface structure.

10 7. The method as claimed in the preceding claim, characterized in that the coating (5) is deposited on the surface of the glass pane with defined open intermediate spaces (7) into which the marking layer (8) is introduced.

15 8. The method as claimed in claim 6 or 7, characterized in that the coating (5) is deposited by screen printing and is then baked before the marking layer (8).

20 9. The method as claimed in any one of the preceding claims, characterized in that the coating is baked during the heat tempering of the glass pane (1).

25 10. The method as claimed in any one of the preceding claims, characterized in that the marking field (3) is part of the surface of a marking stamp (2) provided on the surface of the glass pane.

30 11. The method as claimed in any one of the preceding claims, characterized in that the size and the surface structure of the marking field (3) on the one hand and the amount and consistency of the marking layer (8) to be deposited on the marking field (3), on the other
35 hand, are tailored to one another in such a way that, in mass production, the same amount of the material of the marking layer (8) is always deposited in the marking field (3).

12. The method as claimed in any one of the preceding claims, characterized in that the heat treatment has a maximum temperature of between 180 and 340°C.
- 5 13. glass pane (1) tempered and then heat-treated, comprising a locally deposited marking layer modified, in a visually perceptible manner by the heat treatment, characterized in that the marking layer (8) is supported by the marking field (3) presenting a rough
10 surface structure capable of forming an intimate bond with the marking layer, which layer cannot be completely removed by simple means.
- 15 14. Glass pane as claimed in the preceding claim, characterized in that the marking field (3) is produced by hollows formed in the surface of the glass pane.
- 20 15. Glass pane as claimed in either of the preceding glass pane claims, characterized in that the marking field (3) is applied to the surface of the glass pane by screen-printing of a coating (5) in a design or in a grid pattern.
- 25 16. Glass pane as claimed in the preceding claim, characterized in that the coating (5) is baked and forms part of a manufacturer's mark affixed to the surface of the glass pane.
- 30 17. Glass pane as claimed in any one of the preceding claims, characterized in that the coating (5) comprises a grid of intersecting ribs (6) with intermediate spaces reaching as far as the surface of the glass pane (1).